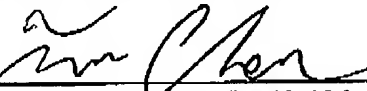


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): George D. Papasouliotis; Bart van Schravendijk; Robert D. Tas; Patrick A. Van Cleemput
Assignee: Novellus Systems, Inc.
Title: Process For Depositing F-Doped Silica Glass In High Aspect Ratio Structures
Serial No.: 10/035,773 Filing Date: December 21, 2001
Examiner: Unknown Group Art Unit: 1745
Docket No.: M-5091-2P US

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I hereby certify that the following executed Power of Attorney By Assignee of Entire Interest and Change in Correspondence Address and accompanying documents (6 pages) are being facsimile transmitted to the Patent and Trademark Office on the date shown below.

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Serial No. 10/035,773



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NO. 626001/01 P. 2-842

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): George D. Papasouliotis; Bart van Schravendijk; Robert D. Tas; Patrick A. Van Cleemput
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COMMISSIONER FOR PATENTS
Alexandria, VA 22313-1450

POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST

Sir:

The above-identified assignee, hereby revokes all powers of attorney previously given and appoints the attorney(s) and/or agent(s) identified below to prosecute the above-identified application and to transact all business in the United States Patent and Trademark Office in connection therewith:

Customer No. 32605

Please address all correspondence and telephone calls regarding this application to:

Tom Chen
MacPherson Kwok Chen & Heid LLP
1762 Technology Drive, Suite 226
San Jose, CA 95110
Phone: (949) 752-7040
Fax: (408) 392-9262

ASSIGNEE CERTIFICATION UNDER 37 CFR 3.73(B)

The undersigned representative of the above-identified assignee certifies that the above-identified assignee is the assignee of the entire right, title and interest in the above-identified

patent application/patent by virtue of a chain of title from the inventor(s) of the above-identified patent application/patent to the above-identified assignee as shown below:

1. From: George D. Papasoulionis To: Novellus Systems, Inc.
2. From: Bart van Schravendijk: Novellus Systems, Inc.
3. From: Robert D. Tas To: Novellus Systems, Inc.
4. From: Patrick A. Van Cleemput To: Novellus Systems, Inc.

The document was submitted to the Patent and Trademark Office for recordation on December 21, 2001. A copy of the document is attached.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the above-identified assignee.

Date: 03/22/04

Novellus Systems, Inc.

By: [Signature]
(Signature)

Name: W. C. M. VAN DEN HOFK
(Printed or Typed Name)

Title: C.T.O. And F.V.P.

ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, we

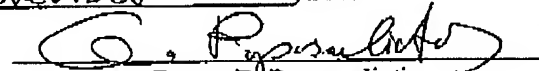
George D. Papasouliotis	of	5642 Stevens Creek Blvd. #606, Cupertino, CA 95014
Robert D. Tas	of	18435 Old Monterey Road, Morgan Hill, CA 95037
Patrick A. Van Cleemput	of	376 Flora Vista Avenue, Sunnyvale, CA 94086
Bart van Schravendijk	of	741 Islay Court, Sunnyvale, CA 94087

hereby sell, assign and transfer to Novellus Systems, Inc., a California corporation, having a place of business at 4000 North First Street, San Jose, CA 95134, its successors and assigns, the entire right, title and interest throughout the world in our invention in:

PROCESS FOR DEPOSITING F-DOPED SILICA GLASS IN HIGH ASPECT RATIO STRUCTURES

for which we have executed a United States patent application on or about the date of this assignment, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; we authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from us; we agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, their successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and we request that the United States Patent and Trademark Office issue all patents granted for said invention to the above-named assignee, its successors and assigns.

Executed this 27 day of November, 2001.


George D. Papasouliotis

State of _____)
County of _____) ss.

On _____ before me, _____
personally appeared George D. Papasouliotis personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

SIGNATURE OF NOTARY

Executed this 27 day of November, 2001.
Robert D. TasState of _____)
County of _____) ss.

On _____ before me, _____
personally appeared Robert D. Tas personally known to me or proved to me on the basis of
satisfactory evidence to be the person whose name is subscribed to the within instrument and
acknowledged to me that he executed the same in his authorized capacity, and that by his
signature on the instrument the person, or the entity upon behalf of which the person acted,
executed the instrument.

WITNESS my hand and official seal.

SIGNATURE OF NOTARY


APR. 12. 2004 3:04PM

MACPHERSON KWOK CHEN

NO. 626 P. 6

Attorney's Docket No.: M-5091-2P US

Executed this 20th day of December, 2001


Patricia A. Van Cempunt

State of _____)
County of _____) ss.

On _____ before me, _____
personally appeared Patrick A. Van Cleemput personally known to me or proved to me on the
basis of satisfactory evidence to be the person whose name is subscribed to the within
instrument and acknowledged to me that he executed the same in his authorized capacity, and
that by his signature on the instrument the person, or the entity upon behalf of which the
person acted, executed the instrument.

WITNESS my hand and official seal.

SIGNATURE OF NOTARY

APR. 12. 2004 3:04PM

MACPHERSON KWOK CHEN

Attorney's Docket No.: M-5091-2P US

Executed this 7th day of December, 2001.

~~Bart van Schravendijk~~

State of _____)
County of _____) ss.

On _____ before me, _____
personally appeared Bart van Schravendijk personally known to me or proved to me on the
basis of satisfactory evidence to be the person whose name is subscribed to the within
instrument and acknowledged to me that he executed the same in his authorized capacity, and
that by his signature on the instrument the person, or the entity upon behalf of which the
person acted, executed the instrument.

WITNESS my hand and official seal.

SIGNATURE OF NOTARY